

# Receiving Report

Date: 12/2/8

Batch No: 11/20603

Supplier: 717555

Dart P/O: 16088

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection 12/02/09 N/A ☐  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M 304	BA-76V X2-500	36	0	0	36	
<del>M 606</del>	<del>BA-76V</del>	<del>48</del>	<del>0</del>	<del>0</del>	<del>48</del>	

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 12/2/8  
 Date [Signature]  
 Received/Costing [Signature]  
 Initial [Signature]

Location

# Purchase Order Receipt Listing

Wednesday, February 08, 2012 10:38:02 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO16088 Receipt Dates from 2/8/2012 to 2/8/2012 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<b>Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd</b>											
PO16088	1		M6061T6B0.750X06. f 000		2/10/2012	2/8/2012	12.0000	\$10.47	0.0000	0	\$125.65
CAD	No		6061T6 BAR. 750 X f 6.00		12.0000	DES102		\$125.65	0.0000	0	
			120603								
	2		M6061T6B00750X00 f .125		2/10/2012	2/8/2012	100.0000	\$1.25	0.0000	0	\$124.65
	No		6061-T6 Bar. 750 x f .125		100.0000	DES102		\$124.65	0.0000	0	
			120603								
	3		M6061T6B1.000X02. f 000		2/10/2012	2/8/2012	48.0000	\$4.79	0.0000	0	\$229.75
	No		6061-T6 Bar 1.00 x f 2.00		48.0000	DES102		\$229.75	0.0000	0	
			120603								
	4		M6061T6B1.000X04. f 000		2/10/2012	2/8/2012	24.0000	\$9.39	0.0000	0	\$225.45
	No		6061-T6 Bar 1.00 x f 4.00		24.0000	DES102		\$225.45	0.0000	0	
			120603								
	5		M6061T6R0.625 f 6061-T6 Round Bar f .625"		2/10/2012	2/8/2012	60.0000	\$0.92	0.0000	0	\$55.05
	No		120603								
	6		M6061T6R0.750 f 6061-T6 Round Bar f .750"		2/10/2012	2/8/2012	48.0000	\$1.19	0.0000	0	\$56.96
	No		120603								
	7		M5052H32S.063 sf 5052-H32.063 Sheet sf		2/10/2012	2/8/2012	64.0000	\$1.82	0.0000	0	\$116.66
	No		120603					\$116.66	0.0000	0	

## B I L L O F L A D I N G

No: PEC 751580

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW  
Probill  
Via VIM TRRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7

Ship To: ( 1)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-416097- 1 Your PO # 16088  
STAINLESS STEEL ROUND BAR 303 STAINLESS  
.750" DIA X 144.0000"

Heat Number  
BLW4

Tag No  
34416

Quantity  
108 FT

PCS  
9

Wt LBS  
164

2) Our Order PEC-416097- 2 Your PO # 16088  
STAINLESS STEEL ROUND BAR 303 STAINLESS  
1.00" DIA X 144.0000"

Heat Number  
24809

Tag No  
34464

Quantity  
12 FT

PCS  
1

Wt LBS  
32

3) Our Order PEC-416097- 3 Your PO # 16088  
ALUMINUM FLAT BAR 6061-T6511  
.375" x 1.00" X 144.0000"

Heat Number  
HK067 780

Tag No  
34417

Quantity  
12 FT

PCS  
1

Wt LBS  
5

4) Our Order PEC-416097- 4 Your PO # 16088  
ALUMINUM FLAT BAR 6061-T6511  
.625" x 2.50" X 144.0000"

Heat Number  
201115216

Tag No  
34418

Quantity  
12 FT

PCS  
1

Wt LBS  
22

5) Our Order PEC-416097- 5 Your PO # 16088  
ALUMINUM FLAT BAR 6061-T6511  
.750" x 6.00" X 144.0000"

Heat Number  
65023 052

Tag No  
34419

Quantity  
12 FT

PCS  
1

Wt LBS  
63

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

## B I L L O F L A D I N G

No: PEC 751580

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW  
Probill  
Via VIM TRRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: (20115)  
DART AEROSPACE

Ship To: (1)  
DART AEROSPACE

## B I L L O F L A D I N G

6) Our Order PEC-416097- 6 Your PO # 16088  
ALUMINUM FLAT BAR 6061-T6511

.125" x .750" X 240.0000"

Heat Number  
13642

Tag No  
34457

Quantity  
100 FT

PCS  
5

Wt LBS  
10

MTR

7) Our Order PEC-416097- 7 Your PO # 16088  
ALUMINUM FLAT BAR 6061-T6511

1.00" x 2.00" X 144.0000"

Heat Number  
HK104 130

Tag No  
34420

Quantity  
48 FT

PCS  
4

Wt LBS  
113

MTR

8) Our Order PEC-416097- 8 Your PO # 16088  
ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" X 144.0000"

Heat Number  
15208

Tag No  
34421

Quantity  
24 FT

PCS  
2

Wt LBS  
111

MTR

9) Our Order PEC-416097- 9 Your PO # 16088  
ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

Heat Number  
36657 107

Tag No  
34422

Quantity  
60 FT

PCS  
5

Wt LBS  
22

MTR

10) Our Order PEC-416097- 10 Your PO # 16088  
ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

Heat Number  
P0.750026

Tag No  
500901

Quantity  
48 FT

PCS  
4

Wt LBS  
26

MTR

11) Our Order PEC-416097- 11 Your PO # 16088  
ALUMINUM SHEET 5052-H32

.0640 Nom X 48.0000" X 96.0000"

Heat Number

Tag No

Quantity

PCS

Wt LBS

MTR

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
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RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ Reject Qty	Book Amt
Vendor ID \ Vendor Name		V-C-COP001	Thyssenkrupp Materials CA Ltd								
PO16088	9		M303R0.750	f	2/10/2012	2/8/2012	108.0000	\$3.89	0.0000	0	\$420.02
CAD	No		303 Round Bar 0.750 f		108.0000	DESI02		\$420.02	0.0000	0	
			120603								
	10		M303R1.000	f	2/10/2012	2/8/2012	12.0000	\$6.90	0.0000	0	\$82.81
	No		303 Round Bar 1.00 f		12.0000	DESI02		\$82.81	0.0000	0	
			120603								
	12		M6061T6B0.375X01. f		2/10/2012	2/8/2012	12.0000	\$2.08	0.0000	0	\$24.93
	No		6061T6 BAR. 375 x f		12.0000	DESI02		\$24.93	0.0000	0	
			1.00								
			120603								
	13		M6061T6B0.625X02. f		2/10/2012	2/8/2012	12.0000	\$3.65	0.0000	0	\$43.80
	No		500								
			6061-T6 Bar .625 x f		12.0000	DESI02		\$43.80	0.0000	0	
			2.50								
			120603								

Total Received Quantity: 500.0000  
 Total Qty to Inspect (PO U/M): 0.0000  
 Total Reject Quantity: 0.0000  
 Total Receipt Value: \$1,505.73  
 Total Balance Due Quantity: 0.0000

# B I L L O F L A D I N G

No: PEC 751580

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW  
 Probill  
 Via VIM TRRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

B I L L O F L A D I N G  
 B2F4557 34486 64.00 SFT 2 58

TOTAL: Tags 11 PCS 35 LBS 626

Heat Number

\*\*\* Chemical Analysis \*\*\*

13642  
 15208  
 201115216  
 24809  
 36657 107  
 65023 052  
 B1W4  
 B2F4557  
 HK067 780  
 HK104 130  
 P0.750026

*01/14/18*

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
 \*\* REFERENCED ON IT \*\*

TOTAL 3 BDLs, 1 SKID G.W. 724 LBS

ITEMS (1,3,4,5,7,8,9,10) BDL  
 ITEM (2) BDL  
 ITEM (6) BDL  
 ITEM (11) SKID

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA

Page: 3 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
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RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
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REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

# B I L L O F L A D I N G

No: PEC 751580

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Feb12 at 10:20 From PFW  
Probill  
Via VIM TRTRANSFER  
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Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

# B I L L O F L A D I N G

\*\*\* 9:00 AM TO 4:00 PM \*\*\*

CONCORD, ONT.\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 4 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
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REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

# THYSSENKRUPP MATERIALS NA

P.O./Rel 16088

DART AEROSPACE  
STAINLESS STEEL ROUND BAR 303 STAINLESS  
1.50" DIA X 144.0000"

PART NO.

## Certificate of Mill Test Results

BL PEC-751580-001

7Feb12  
Pg 1/1

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: \_\_\_\_\_



### METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS  
6870 HIGHWAY 42 EAST  
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 702461 9

Customer: 007206 001

Mail To:

THYSSENKRUPP MATERIALS  
2821 LANGSTAFF ROAD  
CONCORD, ON L4K5C6

Ship To:

THYSSENKRUPP MATERIALS  
2821 LANGSTAFF ROAD  
CONCORD, ON L4K5C6

Date: 1/16/2012 Page: 1

Steel: 303

Finish: CD

Your Order: PEC235015

NAS Order: PN 0016898 06

Corrosion:

#### PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw  
ASTM A582/05 EN 10204 3.1, ASTM A484/06  
AMS 5640V TYPE 1, QQS-764B CONDITION A

#### REMARKS:

COMPLIES W/REQUIREMENTS OF DPAAS EU DIRECTIVE 2002.95.  
EC, ROHS, BAF+MOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA  
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity code
BE3177 9		.7500		1.082	144.00	B	1	

#### CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	CM	C	CO	CR	CU	MM	MO	N	NI	P
BE3177 9	US	.0438	.0780	17.2770	.2320	1.7980	.2580	.0490	8.5200	.0260

S	SI
.3305	.4790

#### MECHANICAL PROPERTIES

Product Id	1 d	HB	.2YS	UTS	RA	Elong
	o i	Mo.	KSI	KSI	%	% 4D
BE3177 9	R L	208.00	72.15	104.48	56.39	49.18

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC WESS

1/16/2012



# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS  
1.00" DIA X 144.0000"  
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-751580-002

7Feb12

Pg 1/1

Signed by: \_\_\_\_\_

This MTR contains 1 page (Page# 1)

MTR#: VJRB93238710.61F

### MILL TEST REPORT

### TA CHEN INTERNATIONAL, INC.

Customer: COPCON PO#: PEC-236458 SO#: PL8384

Item: RB030100 Bundle: VJC5154636 Heat#: 24809

Item: RB030100 Bundle: VJC5154637 Heat#: 24809

### VIRAJ PROFILES LTD.

**VIRAJ**

Reg. & Mkt off: G-33 & 34, MIDC, Industrial Area, Tarapur, Thane (Dist), Maharashtra, INDIA - 401506, E-Mail: sales@viraj.com  
Works: SURVEY No- 114, 119 & 120, VILL. Mahagaon, Tal: Palgarh, Dist Thane-401501, MAHARASTRA, INDIA, vielqa@viraj.com

### TEST CERTIFICATE

#### CUSTOMER

TA CHEN INTERNATIONAL, INC. L-B  
5855 OBISPO AVENUE, LONG BEACH,  
CA 90805.

#### ORDER NO

L33350

#### PACKING LIST NO

51/932387/10

#### INSPECTION NO

100001376614

#### DATE

23.11.2011

#### HEAT No

24809



#### BUNDLE NO:

5154634, 5154635, 5154636, 5154637, 5154638, 5154639, 5154640.

#### DESCRIPTION

STAINLESS STEEL BRIGHT BAR

COLD DRAWN POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
1"	ROUND	ASTM A484	12 - 13	312	6,906.000 LB

#### CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0470	1.920	0.430	0.0000	0.0290	17.460	8.030	0.110	0.080	0.050	0.03250

#### TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS
78.0	103.0	40.0	61.0	201.0	7.0

#### SPECIFICATION:

MATERIAL CONFIRMS TO ASTM A31-95B COND A, A 32-05 COND A, A 48+10, AMS S640U TYPE I, EXCEPT MARKING, QQ-S-764B COND A, EXCEPT MARKING, UNS-S-30000, CERTIFIED AS PER EN 10204-31.

#### REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO-GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, 5 OAKING TIME 1hr/min. WATER QUENCHED. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION, MELT SOURCE A019. MELT & MANUFACTURED: INDIA

We hereby certify that the material described above has been tested and complies with the terms of order/s contract.

WORKS INSPECTOR  
K R K MURTHY

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
.375" x 1.00" X 144.0000"  
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-751580-003

7Feb12

Pg 1/1

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
14020 S. COIL PLUS DR UNIT 100  
PLAINFIELD, IL 60544

### CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-231374-5		CUSTOMER PART NUMBER: 019884-6		PRODUCT DESCRIPTION: .375 X 1.000 SC RECT BAR	
KAISER ORDER NUMBER: 9085852	LINE ITEM: 005	SHIP DATE: 07/11/2011	KAISER LOT NUMBER: HK067 780	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 192.000 PCS	B/L NUMBER: 966945	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF RAOD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF RAOD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
XTR104883	03C1	0001	48.1	42.6	21.3	RE 96	N/A	N/A
XTR104883	03C1	0002	47.0	41.8	20.7	RE 95	N/A	N/A
XTR104883	03C1	0003	48.2	42.8	20.7	RE 95	N/A	N/A
XTR104883	03C1	0004	47.8	42.2	21.3	RE 96	N/A	N/A
XTR104883	03C1	0005	48.1	42.6	21.7	RE 96	N/A	N/A
XTR104883	03C1	0006	48.0	42.2	21.8	RE 96	N/A	N/A
XTR104883	03C1	0007	47.4	42.0	20.8	RE 96	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40		0.15		0.8	0.04			NA	NA	NA		

### Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA (LOS ANGELES, CA) MELTED IN USA

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Tom G. Small, Jr., QA Manager

*Tom G. Small, Jr.*

Plant Serial: 00348343

Kaiser Order Number: 9085852

Page 1 of 1

Line Item: 005

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: \_\_\_\_\_

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
6.25" x 2.50" x 144.0000"

PART NO.



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
136245	2

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	141871	RB0107	10/7/2011	ASTM-B221-08 StencilContinuous
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SALESPERSON	SPECIFICATION
ThyssenKrupp Materials NA PEC	PEC-233418	6061-T6511	David Schroeder	AMS-QQA-200/8
Quantity Certified	882 lbs	40 pcs	CUSTOMER PART NUMBER	DESCRIPTION
			RB0107	SCRB 625x2.500

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201115216	10/01/11	49.3	46.4	15.0
2	201115216	10/01/11	48.7	45.7	15.0
3	201115216	10/01/11	48.4	45.4	16.0
4	201115216	10/01/11	49.6	45.6	15.7
5	201115216	10/01/11	48.2	44.8	14.5

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Total	Melted In United States of America
C07H0657	6061	0.67	0.25	0.32	0.10	0.88	0.09	0.01	0.01	0.05	0.15	
C07H0658	6061	0.71	0.30	0.34	0.09	0.89	0.09	0.01	0.01	0.05	0.15	

Print Date: 10/7/2011

*Calvin J. Wiggins*

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/2011 - LMS

# THYSSENKRUPP MATERIALS NA

## Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
.750" x 6.00" X 144.0000"  
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

BL PEC-751580-005

7Feb12

Signed by: \_\_\_\_\_

Pg 1/1

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-236091-5		CUSTOMER PART NUMBER: ALREC00274		PRODUCT DESCRIPTION: .750 X 6.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 611473	LINE ITEM: 005	SHIP DATE: 01/18/2012	KAISER LOT NUMBER: 65023 052	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 16.000 PCS	S/L NUMBER: 602403	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
65023 052	0001	0001	46.9	41.8	21.3	RE 94	N/A	N/A
65023 052	0001	0002	47.4	42.8	21.1	RE 95	N/A	N/A
65023 052	0001	0003	47.6	43.1	19.8	RE 94	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A32150	.71	.30	.23	.07	.94	.10	.02	.02	.00	.00	.00	.00	.01

### Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QC-A-200/8 UNS#6061 MEETS  
ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL  
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been  
inspected and tested and found in conformance with applicable specifications forming a part of the  
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on  
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

*Alex Yeh*

Plant Serial: 00025643  
Kaiser Order Number: 611473  
Line Item: 005

# THYSSENKRUPP MATERIALS NA

PO/Rel 16088

## Certificate of Mill Test Results

**DART AEROSPACE**  
ALUMINUM PLAT BAR 6061-T6511  
1.25" x .750" x 240.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: \_\_\_\_\_

BL PEC-751580-006

7Feb12  
Pg 1/1



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
<http://www.extrudex.com>

### MILL TEST REPORT

BILL TO THYSSENKRUPP MATERIALS NA	1773	Cert Code: 1	0.65	DIE NUMBER S	4642	DATE OF SHIPMENT 10/6/2011	EXTRUDEX ORDER NO. 138341 - 1	MANIFEST NO. 254210
SHIP TO THYSSENKRUPP MATERIALS NA	1773	CUSTOMER PO PEC-233209		ALLOY 6061	TEMPER T6511	SALESMAN FORBES DODWELL	MADE IN CANADA	
SO DESCRIPTION 1.25" X .750" FB		CUSTOMER PART NUMBER 1-125-750		PART DESCRIPTION	CERTIFICATION MILL TEST ASTM B221			

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Oct03/11	44.2	39.8	12.30	89.3, 89.7, 89.2	

### Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 13642 6061	0.55	0.22	0.21	0.06	0.84	0.04		0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Remainder	0.00

*David Natale*

David Natale  
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST REPORT

# THYSSENKRUPP MATERIALS NA

## Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.00" x 2.00" X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-751580-007

7Feb12

Signed by: Pg 1/1

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-235584-3		CUSTOMER PART NUMBER: B22/STK		PRODUCT DESCRIPTION 1.000 X 2.000 SC RECT BAR	
KAISER ORDER NUMBER: 609864	LINE ITEM: 003	SHIP DATE: 01/09/2012	KAISER LOT NUMBER: HK104 130	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 2032.000 LB	QUANTITY: 72.000 PCS	B/L NUMBER: 602304	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
EK104 130	0001	1	56.8	53.5	15.5	RE 95	N/A	N/A
EK104 130	0001	2	54.0	50.3	15.6	RE 95	N/A	N/A
EK104 130	0001	3	52.2	47.8	12.5	RE 92	N/A	N/A
EK104 130	0001	4	52.8	47.7	12.8	RE 92	N/A	N/A
EK104 130	0001	5	52.7	47.9	12.3	RE 92	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.30	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H41320	.69	.43	.28	.08	.89	.11	.09	.02	.01	.01	.00	.05	.11

### Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

*Alex Yeh*

Plant Serial: 00023766

Kaiser Order Number: 609864

Line Item: 003

# THYSSENKRUPP MATERIALS NA

## Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" x 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-751580-008

7Feb12

Signed by: \_\_\_\_\_ Pg 1/1

### CAN ART

ALUMINUM EXTRUSION INC.

### Material Test Report

Manifest: 238205

Ship To: ThyssenKrupp Materials NA  
2821 Langstaff Road  
Concord, ON L4K 5C6

Ticket:  
5226042

Our Order: **846040 - 2**      Cust P.O.: 234827  
Die: LS05885      Part: 05885-000-144  
Alloy Temper: 6061 T6511      Description: 1.000 x 4.000  
Print Date: 12/2/11

#### Chemical Composition Range

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
6061										
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

#### Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
21429	15208	A11	11/29/11	43.11	39.22	17.5

Applicable Specifications: ASTM B221-08 QQA200/8  
Country of Origin: 428 Jutras Dr, Windsor, Ontario, CANADA N8N 5C5

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized: \_\_\_\_\_

  
Evan Eng, Quality Assurance Mgr.

# THYSSENKRUPP MATERIALS NA

## Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
.625" DIA X 144.0000"  
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

BL PEC-751580-009

7Feb12

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

*Best in Class*

CUSTOMER PO NUMBER: PEC-236186-2		CUSTOMER PART NUMBER: ALRD00391		PRODUCT DESCRIPTION: .625 ROD +/- .005	
KAISER ORDER NUMBER: 611778	LINE ITEM: 002	SHIP DATE: 01/20/2012	KAISER LOT NUMBER: 36657 107	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1004.000 LB	QUANTITY: 232.000 PCS	B/L NUMBER: 602416	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
36657 107	0001	0001	46.3	42.7	21.1	RE 96	N/A	N/A
36657 107	0001	0002	46.8	42.7	22.0	RE 96	N/A	N/A
36657 107	0001	0003	46.5	39.9	19.6	RE 96	N/A	N/A
36657 107	0001	0004	46.7	40.3	19.9	RE 96	N/A	N/A
36657 107	0001	0005	45.5	40.9	20.5	RE 96	N/A	N/A
36657 107	0001	0006	47.5	43.1	21.3	RE 96	N/A	N/A
36657 107	0001	0007	46.8	39.3	21.3	RE 96	N/A	N/A
36657 107	0001	0008	45.7	41.4	20.5	RE 94	N/A	N/A
36657 107	0001	0009	45.6	40.4	22.3	RE 95	N/A	N/A
36657 107	0001	0010	45.6	40.4	22.3	RE 95	N/A	N/A
36657 107	0001	0011	46.5	39.4	21.7	RE 95	N/A	N/A
36657 107	0001	0012	46.9	43.3	20.0	RE 97	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A31935	.73	.32	.25	.05	.93	.10	.02	.02	.00	.01	.00	.00	.01

### Applicable Requirements:

ASTM-B221-08 ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

Plant Serial: 00025737

Kaiser Order Number: 611778

Line Item: 002



# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-751580-009

7Feb12

Signed by: \_\_\_\_\_

Pg 2/2

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

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### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

*Alex Yeh*

Plant Serial: 00025737  
Kaiser Order Number: 611778  
Line Item: 002

# THYSSENKRUPP MATERIALS NA

## Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
.750" DIA X 144.0000"  
PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

BL PEC-751580-010

7Feb12

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-232331-6		CUSTOMER PART NUMBER: 015238-9		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD .750 +/- .004	
KAISER ORDER NUMBER: 601377	LINE ITEM: 006	SHIP DATE: 09/09/2011	KAISER LOT NUMBER: P0.750026	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1515.000 LB	QUANTITY: 243.000 PCS	B/L NUMBER: 601380	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
XTR000279	CC01	0001	49.0	46.3	17.5	RE 96	N/A	N/A
XTR000279	0001	0002	49.4	46.3	14.3	RE 99	N/A	N/A
XTR000279	0001	0003	57.0	53.0	15.0	RE 95	N/A	N/A
XTR000279	0001	0004	56.2	53.5	14.1	RE 98	N/A	N/A
XTR000279	0001	0005	54.5	51.0	15.5	RE 98	N/A	N/A
XTR000279	0001	0006	54.9	50.0	17.7	RE 98	N/A	N/A
XTR000279	0001	0007	56.0	53.3	14.9	RE 98	N/A	N/A
XTR000279	0001	0008	55.2	49.0	13.5	RE 98	N/A	N/A
XTR000279	0001	0009	56.0	47.3	14.9	RE 97	N/A	N/A
XTR000279	0001	0010	55.7	49.5	15.6	RE 97	N/A	N/A
XTR000279	0001	0011	55.5	51.7	15.4	RE 97	N/A	N/A
XTR000279	0001	0012	57.3	53.5	16.3	RE 96	N/A	N/A
XTR000279	0001	0013	54.7	49.1	14.8	RE 96	N/A	N/A
XTR000279	0001	0014	53.9	48.7	14.4	RE 96	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A31472	.78	.28	.28	.10	.93	.08	.04	.02	.00	.01	.00	.01	.01

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

*Alex Yeh*

Plant Serial: 00006696

Kaiser Order Number: 601377

Page 1 of 2

Line Item: 006

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

PART NO.

PO/Rel 16088

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-751580-010

7Feb12

Signed by: \_\_\_\_\_

Pg 2/2

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

### Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 UNS#6061 MEETS  
ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL  
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been  
inspected and tested and found in conformance with applicable specifications forming a part of the  
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on  
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager



Plant Serial: 00006696

Kaiser Order Number: 601377

Page 2 of 2

Line Item: 006

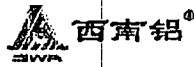
# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM SHEET 5052-H32  
.0640 Nom X 48.0000" X 96.0000"  
PART NO.

PO/Rel 16088  
We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-751580-011 7Feb12  
Signed by: Pg 1/1



### 产品质量证明书 PRODUCT QUALITY CERTIFICATE



图号: 00222001106000123  
Serial No.

订货单位 Customer	GALEX INC.												
合同号 Contract No	140019819 SWA11-0171-0520-01		产品名称 Product	软态金薄板		批号 Lot No	B2F4557						
合金状态 Alloy And Temper	5052H32		规格(mm) Dimension	1.630 * 1219 * 2439 0.064 * 48 * 96		箱数 Box Count	2						
技术标准 Technique Standard	Q/B1260-2000				片数 Quantity	185.000							
化学成分标准 Chemical Composition Standard	GB/T3190-1998				重量(kg) Weight	2,344.000							
机械性能 Mechanical Property													
状态 Temper	取样方法 Sampling Method	抗拉强度(MPa) Tensile Strength		屈服强度(MPa) Yield Strength		延伸率(%) Elongation							
		标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value						
H32	纵向	215-265	245-250	≥160	104-200	≥7	14.5-21						
弯曲 Curve				探伤 Ultrasonic									
化学成分 Chemical Composition													
熔炼号 Melt No	元素 Element	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al		
0230236	标准值 Standard Value	≤0.25	≤0.40	≤0.10	≤0.10	2.50-2.80	0.15-0.25	—	≤0.10	—	余量		
	实测值 Actual Value	0.06	0.34	0.01	0.06	3.64	0.20	—	0.01	—	Remainder		
表面质量 Surface Control		合格		氢含量(ml/100gAl)		标准值 Standard Value		—					
几何尺寸 Dimension Control		合格		Hydrogen Content		实测值 Actual Value		—					
备注 Note	MATERIAL CONFORMS TO ASTM B20 AND AMS-QQA-350 STANDARDS IN ALL RESPECTS												

质量、环境、职业健康安全分别通过ISO9001、ISO14001、GB/T28001管理体系认证，本产品的铝、铜、磷、六价铬的含量均符合欧盟ROHS指令2005/618/EC的要求，≤1000PPm。  
Quality, Environment and Occupational Health and Safety Management System have Certified as per ISO9001, ISO14001 and GB/T28001. Content of P, Cu, H, Hexavalent chrome conforms to ROHS 2005/618/EC, arsenic is less than 1000PPm.  
检查员: YY-DENJHUA  
Inspector

日期: 2011-01-12  
Date  
西南铝业(集团)有限责任公司  
SOUTHWEST ALUMINIUM (GROUP) CO., LTD.

刮涂厚板 95105615 或见  
热线 8008109915 查询真伪  
SWA2100606114410

**DART**  
aerospaceDart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO16088**

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 1 of 4

**Order From :**

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA**Contact Name****Vendor Phone**

905 669 9444

**Vendor Fax**

905 738 9033

**Vendor Account Nbr****Buyer**

Chantal Lavoie

**Requisition Nbr****Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Ship To :**DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

REVISED

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M6061T6B0.750X06.000 003	6061T6 BAR .750 X 6.00	2/10/12 Yes	✓ 12.00 f	Yours ppd f	\$10.5000	\$126.00
		<b>Special Inst:</b>	MATERIAL:6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221				
2	M6061T6B00750X00.125 003	6061-T6 Bar .750 x .125	2/10/12 Yes	✓ 100.00 f	Yours ppd f	\$1.2500	\$125.00
		<b>Special Inst:</b>	SAME AS ABOVE				
3	M6061T6B1.000X02.000 004	6061-T6 Bar 1.00 x 2.00	2/10/12 Yes	✓ 48.00 f	Yours ppd f	\$4.8000	\$230.40
		<b>Special Inst:</b>	SAME AS ABOVE				

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERYNo substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr:

2

Change Date: 2/06/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16088

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 2 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275.POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

4	M6061T6B1.000X04.000 024	6061-T6 Bar 1.00 x 4.00	2/10/12 Yes	24.00 f	Yours ppd	\$9.4200	\$226.08
		Special Inst:	SAME AS ABOVE				
5	M6061T6R0.625 012	6061-T6 Round Bar .625"	2/10/12 Yes	60.00 f	Yours ppd	\$0.9200	\$55.20
		Special Inst:	MATERIAL:6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221				
6	M6061T6R0.750	6061-T6 Round Bar .750"	2/10/12 Yes	48.00 f	Yours ppd	\$1.1900	\$57.12
		Special Inst:	SAME AS ABOVE				
7	M5052H32S.063 022	5052-H32 .063 Sheet	2/10/12 Yes	64.00 sf	Yours ppd	\$1.8280	\$116.99
		Special Inst:	MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209				

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Certification required when applicable

Change Nbr: 2

Change Date: 2/06/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16088

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 3 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

9	M303R0.750 028	303 Round Bar 0.750	2/10/12 Yes	✓ 108.00 f <i>Papadakis</i>	Yours ppd	\$3.9000	\$421.20	4
		Special Inst:	MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE					
10	M303R1.000 028	303 Round Bar 1.00	2/10/12 Yes	✓ 12.00 f <i>Papadakis</i>	Yours ppd	\$6.9200	\$83.04	
		Special Inst:	SAME AS ABOVE					
11	M304B0.750X2.500	304 BAR 750 X 2.50	2/10/12 Yes	36.00 f <i>Papadakis</i>	Yours ppd	\$16.5000	\$594.00	
		Special Inst:	MATERIAL: AISI 304/316 BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE					
12	M6061T6B0.375X01.000 002	6061T6 BAR .375 x 1.00	2/10/12 Yes	✓ 12.00 f <i>Papadakis</i>	Yours ppd	\$2.0830	\$25.00	
		Special Inst:	MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221					

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Certification required when applicable

Change Nbr: 2

Change Date: 2/06/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
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## PURCHASE ORDER

Purchase Order ID **PO16088**

Purchase Order Date 2/03/12

PO Print Date 2/06/12

Page Number 4 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

13 M606 T6B0.625X02.500 6061-T6 Bar .625 x 2.50 2/10/12 12.00 Yours ppd \$3.6600 \$43.92  
Yes f, 1/12/12

Special Inst: SAME AS ABOVE

PO Total: \$2,103.95

Change Nbr: 2

Change Date: 2/06/12

CL

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